

RCMU Declaration of conformity

Residual Current Monitoring Unit

Inverter IMEON 3.6 and IMEON 9.12



IMEON ENERGY
Your Power, Your Rules

The inverters mentioned above are equipped with a Residual Current Monitoring Unit (RCMU).

The RCMU monitors the AC residual currents between the grid connection and the inverter but also the DC residual currents of the solar inputs of the inverter.

The RCMU included in the inverter is tested for RCM functionality according to VDE0126-1-1 which states that transformerless inverters must provide residual current monitoring within the following limits:

- If the residual current exceeds 300 mA continuously, the inverter must disconnect from the mains within 300 ms
- If a sudden change in the residual current is detected, the inverter must disconnect from the mains in a timely manner specified below:

Sudden change in residual current	Maximum disconnection time from the mains
30 mA	300 ms
60 mA	150 ms
150 mA	40 ms

Thus, according to IEC 60634-7-712, it is not necessary to install a Residual Current Device (RCD) type B on the electrical installation. A RCD type A with a limit of 300mA is sufficient.

Quality Department